Model Examinations of the School Book

Model 1

Answer the following questions :

1 Choose the correct answer :

(1) The triangle whose measures of its angles are 50° , 90° and 40° is ..... (a acute-angled triangle *or* an obtuse-angled triangle *or* a right-angled triangle *or* otherwise)

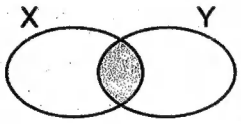
(2) $4\frac{1}{8} \times 2\frac{2}{3}$ = ... (1 *or* 10 *or* 11 *or* 111)

(3) If $\{7 , 10\} \subset \{10 , x + 4\}$, then x = ...

(3 *or* 4 *or* 5 *or* 6)

(4) $3.75 \times 1\,000$ = ... (0.375 *or* 0.0375 *or* 3750 *or* 37.5)

(5) $\frac{1}{2} \square \frac{1}{3}$ (< *or* > *or* = *or* ≤)

(6) 

The shaded part is .....

($X \cap Y$ *or* $X \cup Y$ *or* $X - Y$ *or* $X \subset Y$)

(7) $55.241 \times 100 \square 522.41 \times 10$ (< *or* > *or* = *or* ≤)

(8) $\frac{2}{3} \times$ ..... = 1 (1 *or* 2 *or* 3 *or* $\frac{3}{2}$)

(9) 43 day ≃ ..... (to the nearest week) (4 *or* 6 *or* 5 *or* 7)

(10) Any chord passing through the centre of a circle is called .....

(a diameter *or* a radius *or* a side *or* otherwise)

(11) $\{52\}$ ..... $\{5 , 2\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(12) $12.3 \times$ ..... = 1230 (10 *or* 100 *or* 1000 *or* 10000)

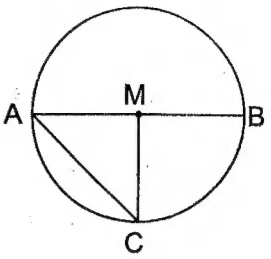
(13) $Y = \{2 , 4 , 6\} \cap \{1 , 2 , 3\}$, then 6 ..... Y

($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(14) $\frac{5}{8} \square 0.5734$ (< *or* > *or* = *or* ≤)

2 Complete each of the following :

(15) In the opposite figure :



[a] MA = ... = ...

[b] The longest chord in the circle is .....

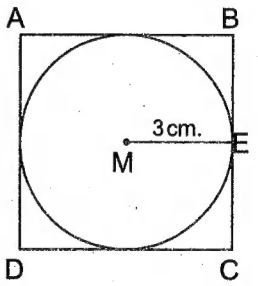
(16) $\frac{4}{12} \div \frac{6}{12}$ = ...

(17) The probability of the sure event = ...

(18) If $\frac{x}{8} = \frac{15}{24}$, then x = ...

(19) 2.4 decimetre = ... cm.

(20) In the opposite figure :



If ME = 3 cm. ,

then the perimeter

of the square = ... cm.

(21) 65.384 – ..... = 65

(22) $\frac{3}{25} \div$ ..... = $\frac{25}{3}$

3 Answer the following :

(23) Draw the triangle ABC where

AB = 4 cm. , BC = 6 cm. and CA = 8 cm.

, then draw a circle its centre is B and its radius length is 4 cm.

(24) From the table , find the probability that a pupil plays basketball :

Game	Football	Basketball	Handball
Number of pupils	50	40	10

(25) Arrange in a descending order :

$5\frac{1}{2}$, $6\frac{1}{4}$, $5\frac{3}{4}$ and $5\frac{2}{5}$

.....

(26) Find the width of a rectangle whose area is 10.25 metre square and its length is 4.1 metres , then find its perimeter.

.....

.....

Model 2

Answer the following questions :

1 Choose the correct answer :

(1) 3.36 km. = ... m. (3.36 or 33.6 or 336 or 3360)

(2) $9\frac{3}{25} \simeq$ ..... (to the nearest tenth)

(0.9 or 9.2 or 9.1 or 9)

(3) $\frac{5}{6} \div 1\frac{1}{6}$ = ... ($\frac{5}{7}$ or $\frac{2}{6}$ or $\frac{3}{7}$ or $\frac{7}{6}$)

(4) $0.312 \times 100 \square 312 \div 100$ (> or < or = or ≤)

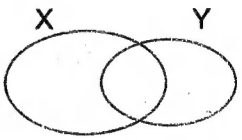
(5) The smallest number from the following is .....

(0.111 or 0.12 or 0.123 or 1.023)

(6) $10 \times 4.72 \square 100 \times 0.472$ (< or > or = or otherwise)

(7) $\frac{3}{5} \times 1.6 > 1.6 \times$ ..... (0.6 or 1.6 or $\frac{5}{3}$ or 0.3)

(8) The shaded part represents .....



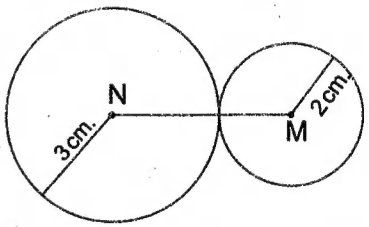
($X \cap Y$ or $X \cup Y$ or $X - Y$ or $Y - X$)

(9) If $Y = \{2, 3, 5\} \cap \{1, 3, 5\}$, then $\{1, 2\}$ ..... Y

($\subset$ or $\not\subset$ or $\in$ or $\notin$)

(10) **In the opposite figure :**

MN = ... cm.



(2 or 3 or 6 or 5)

(11) The length of the diameter of any circle ☐ the length of any chord in it does not passing through the centre

(> or < or = or ≤)

(12) $\{0\}$ ..... $\{1, 2, 5, 8\}$ ($\subset$ or $\not\subset$ or $\in$ or $\notin$)

(13) The number 736.592 ≃ 736.59 to the nearest .....

(tenth or hundredth or thousandth)

(14) If $\frac{2}{3} = \frac{16}{C}$, then the value of C = ... (2 or 3 or 12 or 24)

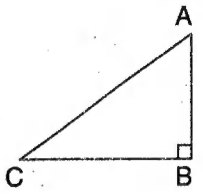
2 Complete each of the following :

(15) If the probability of a pupil succeed in an exam is $\frac{8}{10}$, then the probability of his fail = ...

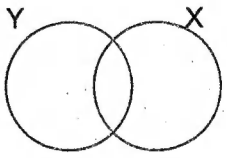
(16) If $X \subset Y$, then $X \cap Y$ = ...

(17) **In the opposite figure :**

The corresponding height of the base $\overline{BC}$ is .....



(18) The shaded part represents .....



(19) A circle its radius length = 1 cm. , then its diameter length = ... cm.

(20) 4.6798 ≃ ..... (to the nearest thousandth)

(21) $2\frac{1}{4} \times \frac{.....}{.....} = 1$

(22) 3978 ÷ ..... = 3.978

3 Answer the following :

(23) If $U = \{x : x \text{ is an odd number} < 15\}$, $X = \{1 , 3\}$ and $Y = \{1 , 5 , 9 , 13\}$, draw a Venn diagram that represents the sets U , X and Y , then find $X \cap Y$

(24) Draw a circle M of radius length 2.5 cm. , then draw the diameter $\overline{AB}$ and the chord $\overline{AC}$ of length 3 cm. Join $\overline{BC}$, then measure its length

(25) A box contains identical balls where 5 balls are white , 9 red and 6 black. If one ball is chosen randomly , what is the probability that the chosen ball is white ?

.....

(26) A rectangle , its length is 4.1 cm. and its width is 3.5 cm. , calculate its area.

.....

Model examination for the special needs students

Answer the following questions :

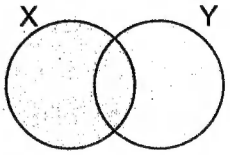
1 Choose the correct answer :

(1) $\frac{1}{3} \times \frac{3}{4}$ = ... ($\frac{1}{3}$ *or* $\frac{1}{2}$ *or* $\frac{1}{4}$)

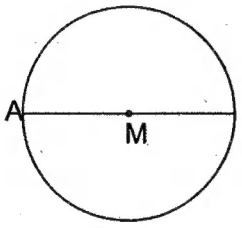
(2) If $3 \in \{x, 5\}$, then x = ... (5 *or* 3 *or* 8)

(3) 312 ÷ 10 = ... (3.12 *or* 0.312 *or* 31.2)

(4) The shaded part is .....



($X \cup Y$ *or* $X \cap Y$ *or* $X - Y$)

(5) 

$\overline{AB}$ is called a .....

(diameter *or* radius *or* side)

(6) 14.4 × 10 ☐ 144 (> *or* < *or* =)

(7) In any triangle , there are ..... heights. (1 *or* 2 *or* 3)

(8) $\{5\}$ ..... $\{5, 8\}$ ($\subset$ *or* $\notin$ *or* $\not\subset$)

(9) When tossing a coin once , the probability of appearing a tail = ...

(1 *or* $\frac{1}{2}$ *or* $\frac{1}{4}$)

(10) $\frac{1}{2}$ = ... (5 *or* 0.5 *or* 0.05)

2 Use the following answers to complete the questions below :

($\frac{1}{6}$, 12.1 , 2 , 4.9 , $\{1, 5\}$)

(1) 4.85 ≃ ..... (to the nearest tenth)

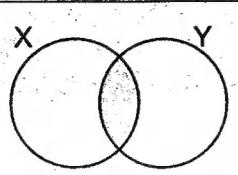
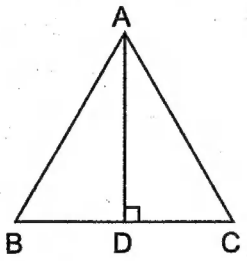
(2) When tossing a die once , the probability of appearing the number 3 = ...

(3) 48.4 ÷ 4 = ...

(4) A circle of diameter length = 4 cm. , then its radius length = ... cm.

(5) If $X = \{1, 2, 5, 7\}$, $Y = \{1, 5, 3\}$, then $X \cap Y$ = ...

3 Match :

A	B
(1)  The shaded part is	>
(2) $\frac{1}{2}$ ☐ $\frac{1}{3}$	$\frac{1}{2}$
(3) $4\frac{25}{100} \simeq$ ..... (to the nearest tenth)	$X \cap Y$
(4) The probability that Samir win a match is $\frac{1}{2}$, then the probability of loss = ...	altitude
(5)  $\overline{AD}$ is called	4.3

Some Schools' Examinations from Different Governorates

1 Cairo Governorate

East Nasr City Educational Zone
Al-Ola Language Modren School

Answer the following questions :

1 Choose the correct answer :

(1) $22.22 \div 2 =$ ..... (11.11 *or* 10.01 *or* 22.22 *or* 1.111)

(2) $\{2, 3, 6, 12\} \cap$ the set of factors of the number 6 = ...
($\{2, 3, 12, 6\}$ *or* $\{3, 6\}$ *or* $\{4, 6\}$ *or* $\{2, 3, 6\}$)

(3) $1\frac{1}{2} \div \frac{1}{4} =$ ..... (2 *or* 6 *or* 12 *or* $\frac{3}{8}$)

(4) If the probability of pupil's success is $\frac{8}{10}$, then the probability of his failure is ..... ($\frac{1}{8}$ *or* $\frac{3}{10}$ *or* $\frac{1}{5}$ *or* 1)

(5) $8.25 \div 8 \simeq$ ..... (to the nearest tenth)
(101 *or* 1 *or* 1.01 *or* 10.1)

(6) The longest chord in a circle is called a .....
(chord *or* radius *or* tangent *or* diameter)

(7) 5 hours + 29 minutes + 60 seconds = ... hours.
(5 *or* 5.3 *or* $5\frac{1}{2}$ *or* 6)

(8) If $\{7, 10\} \subset \{10, x + 3\}$, then $x =$ ..... (3 *or* 4 *or* 5 *or* 10)

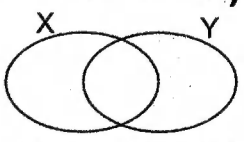
(9) The smallest fraction in the following is .....
($\frac{1}{3}$ *or* $\frac{5}{8}$ *or* $\frac{2}{9}$ *or* $\frac{2}{5}$)

(10) $\frac{1}{25} \times 50 \times 0.25 =$ ..... (4 *or* $\frac{1}{4}$ *or* $\frac{1}{2}$ *or* 2)

(11) $\frac{2}{3} \times$ ..... = 1 (1 *or* $\frac{1}{2}$ *or* 3 *or* $\frac{3}{2}$)

(12) In any triangle , the number of its altitudes = ...
(1 *or* 2 *or* 3 *or* 4)

(13) The shaded part represents .....



($X \cap Y$ *or* $X \cup Y$ *or* $X - Y$ *or* $Y - X$)

(14) 10×4.72 ☐ 100×0.472 (< *or* > *or* =)

2 Complete :

(15) If $X = \{2, 5, 4\} \cap \{5, 3, 7\}$, then 1 X

(16) A circle is of diameter length 28 cm.
, then its radius length = ... cm.

(17) 3.26 m. = ... km.

(18) The probability of the sure event is .....

(19) If $X \subset Y$, then $X - Y$ = ...

(20) 3 ..... the set of factors of the number 18

(21) The number of days in 254 hours equals approximately .....

(22) 8.43×0.9 = ... $\simeq$ ..... (to the nearest $\frac{1}{100}$)

3 Answer the following :

(23) A bag contains 5 white balls , 9 red balls and 6 black balls. All the balls are identical and equal in size. If a ball is drawn randomly. What is the probability that the drawn ball is :

[a] White ? [b] Not red ?

.....

(24) Draw the triangle ABC in which
AB = 3 cm. , BC = 4 cm. and
AC = 5 cm. , then draw the circle M
whose diameter is $\overline{AC}$

(25) The length of a piece of cloth is 9.25 m. , 12 towels are made of it and the length of towel is 0.75 m. How many metres are remainder ?

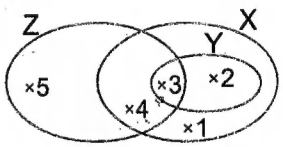
.....

(26) Use the opposite Venn diagram to write each of the following sets :

[a] $X \cap Y$ = ...

[b] $X \cup Y$ = ...

[c] $Z - (X \cap Y)$ = ...



2 Cairo Governorate

Maadi Educational Directorate
Victory College Maadi

Answer the following questions :

1 Choose the correct answer :

(1) 71.5 ÷ ..... = 0.715 (10 *or* 100 *or* 1000 *or* 10000)

(2) If $9 \in \{3, 5, x\}$, then x = ... (3 or 5 or 7 or 9)

(3) The number of altitudes of any triangle = ...

(1 or 2 or 3 or 4)

(4) 2600 gm. ≃ ..... kg. (to the nearest kg.) (2 or 3 or 4 or 6)

(5) $2\frac{4}{5}$ ☐ 2.16 (> or < or = or ≤)

(6) If X = {1 , 2} and Y = {5} , then X ∪ Y = ...

({1 , 2 , 5} or {1 , 5} or ∅ or {2})

(7) 55 ..... {5 , 505} (∈ or ∉ or ⊂ or ⊄)

2 Choose the correct answer :

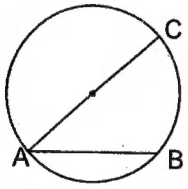
(1) 5.037 ≃ ..... (to the nearest $\frac{1}{100}$) (5 or 5.0 or 5.03 or 5.04)

(2) ∅ ..... {2 , 4 , 6} (∈ or ∉ or ⊂ or ⊄)

(3) 1.8 × 5 = ... (9 or 9.5 or 1.85 or 18.5)

(4) 98.7 × 100 = ... (9.87 or 987 or 9870 or 0.987)

(5) If X ⊂ Y , then X ∩ Y = ... (X or Y or ∅ or X – Y)

(6) 

, $\overline{AB}$ is called .....

(radius or diameter or chord or circle)

(7) 54.523 ≃ 54.5 (to the nearest .....)

($\frac{1}{1000}$ or $\frac{1}{10}$ or $\frac{1}{100}$ or $\frac{1}{10000}$)

3 Complete :

(1) When tossing a die once , the probability of appearing an odd number = ...

(2) $1\frac{2}{3} \times 1\frac{1}{5}$ = ...

(3) Any chord passing through the centre of the circle is called .....

(4) If {2 , a} = {7 , b} , then a = ... and b = ...

(5) A circle of diameter length 3 cm. , then its radius length = ... cm.

(6) 25.25 ÷ 0.25 = ...

(7) If $\{3\} \subset \{x + 1, 5\}$, then x = ...

(8) 25.71 + 3.5 = ...

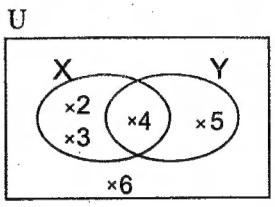
4 **[a] Find the result of :**

$0.675 \times 2.3 =$ ..... $\simeq$ ..... (to the nearest thousandth)

[b] A box contains identical balls , 6 balls are white , 9 red and 4 yellow.
Find the probability that the chosen ball is :

(1) Red = ... (2) Not yellow = ...

5 **[a] From the opposite figure, find :**



(1) $X \cup Y$ = ...

(2) $X \cap Y$ = ...

(3) $Y - X$ = ...

(4) $X^{`}$ = ...

[b] Draw the triangle ABC in which
AB = BC = 6 cm. and AC = 4 cm.

3 Cairo Governorate

El-Nozha Educational Zone
El-Nasr Schools

Answer the following questions :

1 **Choose the correct answer :**

(1) 674.8 ÷ ..... = 67.48 (100 *or* 10 *or* 1000 *or* 10000)

(2) If $7 \in \{2 , 3 , x - 1\}$, then x = ... (7 *or* 6 *or* 8 *or* 3)

(3) 3.43 $\simeq$ 3.4 is approximated to the nearest .....
(ten *or* unit *or* 0.01 *or* $\frac{1}{10}$)

(4) The radius length of a circle equals ..... the diameter length.
(twice *or* half *or* double *or* $\frac{1}{3}$)

(5) 97.2 ÷ 9 = ... (1.8 *or* 1.08 *or* 10.8 *or* 108)

(6) The altitudes of the triangle intersect at ..... point(s).
(1 *or* 2 *or* 3 *or* 4)

(7) 1.2 kg. = ... gm. (12 *or* 120 *or* 1200 *or* 0.012)

(8) If $\frac{2}{23} < \frac{x}{23} < \frac{4}{23}$, then x = ... (3 *or* 4 *or* 5 *or* 6)

(9) $\{5, 7, 9\} \cup \{3, 4, 5\}$ = ...

($\{7, 9\}$ or $\{5\}$ or $\{3\}$ or $\{3, 4, 5, 7, 9\}$)

(10) $4\frac{1}{2} \times$ ..... = 1 ($\frac{1}{2}$ or $\frac{9}{2}$ or 2 or $\frac{2}{9}$)

(11) If $\{3, 5\} = \{x, 3\}$, then x = ... (3 or 5 or 2 or 4)

(12) $\frac{1}{2} \div \frac{1}{12}$ = ... ($\frac{1}{24}$ or 24 or 12 or 6)

(13) $\{9, 11, 13\} - \{3, 11, 14\}$ = ...

($\{5, 2\}$ or $\{3\}$ or $\{11\}$ or $\{9, 13\}$)

(14) $\frac{21}{7}$ ..... $\{1, 3, 5, 7\}$ ($\in$ or $\notin$ or $\not\subset$ or $\subset$)

2 Complete each of the following :

(15) $\frac{2}{3} \simeq$ ..... (to the nearest tenth)

(16) $X \cap X' =$ .....

(17) If $\frac{7}{14} = \frac{x}{2}$, then x = ...

(18) The diameter is a ..... passing through the .....

(19) 1.7×0.04 = ...

(20) When tossing a coin once , then the probability of appearing a head = ...

(21) The altitudes of the obtuse-angled triangle intersect at one point ..... the triangle.

(22) $\{1, 2, 3\} \cup \{3, 8\}$ = ...

3 Answer the following :

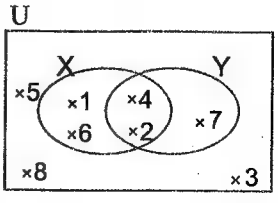
(23) In a school there are 400 pupils , 173 of them are boys , the rest are girls. Find the probability of chosen pupil is girl.

.....

(24) Find a number when multiplied by 0.25 , then the product is 3.25

.....

(25) Look at Venn diagram , then find :



[a] $X - Y$ = ...

[b] $X \cap Y$ = ...

[c] Y' = ...

[d] $(X \cup Y)'$ = ...

(26) Draw a circle M whose radius length is 4 cm. , where $\overline{MA}$ is a radius , then draw the chord $\overline{AB}$, where AB = 5 cm. Find the type of Δ AMB according to its side lengths.

4 Cairo Governorate

Rod El-Farag Educational Zone
St. Mary's School

Answer the following questions :

1 Choose the correct answer :

(1) If $4 \in \{1 , 2 , 2x\}$, then x = ... (2 or 3 or 4 or 5)

(2) $\{7 , 8\}$ ..... $\{5 , 7 , 10\}$ ($\in$ or $\subset$ or $\notin$ or $\not\subset$)

(3) In any triangle, the number of its altitudes = ...
(1 or 2 or 3 or 4)

(4) Any chord passing through the centre of a circle is called .....
(diameter or radius or chord or otherwise)

(5) $\{32\}$ ..... $\{3 , 2\}$ ($\in$ or $\subset$ or $\notin$ or $\not\subset$)

(6) $2\frac{1}{3} \div \frac{5}{3}$ = ... ($\frac{7}{5}$ or $\frac{5}{7}$ or $\frac{3}{7}$ or $\frac{5}{2}$)

(7) $9\frac{3}{25} \simeq$ ..... (to the nearest tenth) (0.9 or 9.2 or 9.11 or 9.1)

(8) $\{2 , 3 , 6 , 12\} \cap$ the set of factors of the number 6 = ...
($\{3 , 6\}$ or $\{4 , 6\}$ or $\{2 , 3 , 6\}$ or $\{2 , 3 , 6 , 12\}$)

(9) $4\frac{1}{8} \times 2\frac{2}{3}$ = ... (1 or 10 or 11 or 111)

(10) $\frac{5}{8} \square$ 0.5734 (> or = or < or $\leq$)

(11) $0.472 \times 100 \square 4.72 \times 10$ (> or = or < or otherwise)

(12) $(2\frac{1}{4} + \frac{3}{4}) \div \frac{3}{7}$ = ... (2 or 5 or 7 or 20)

2 Complete the following :

(13) If $X \subset Y$, then $X \cap Y$ = ...

(14) $\{2 , 3 , 5\} \cap \{1 , 3 , 5\}$ = ...

(15) $4.86 \div 0.9$ = ...

(16) $\frac{3}{25} \div 0.012 =$ .....

(17) The probability of the sure event = ...

(18) The altitudes in obtuse-angled triangle intersect at the point that .....

(19) $(7.65 - 3.4) \times 100 =$ .....

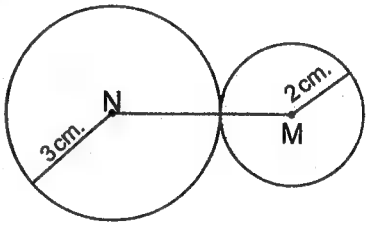
(20) If $\{6 , a , 2\} = \{b , 3 , 2\}$, then a = ... , b = ...

(21) $2.345 \times 0.14 \simeq$ ..... (to the nearest hundredth)

(22) **In the opposite figure :**

M , N are two circles , then

MN = ... cm.



3 Answer the following :

(23) A box contains 18 cards numbered from 1 to 18 Randomly a card has been selected. Calculate the probability of selecting :

[a] A prime number. **[b]** A number divisible by 5

.....

(24) If the price of one metre of cloth is L.E. 3.25 , what is the cost of 2.5 metres of cloth ?

.....

(25) If $U = \{1 , 2 , 3 , 4 , 5 , 6 , 7 , 8\}$

, $X = \{1 , 3 , 4 , 7\}$, $Y = \{1 , 2 , 3 , 6\}$

Draw a Venn diagram that represents

the sets U , X and Y and then find : $X \cap Y$

$X \cap Y = \{.....\}$

(26) Draw the Δ ABC where AB = 4 cm.

, BC = 3 cm. and CA = 5 cm.

, then draw its altitudes.

What is the type of Δ ABC according to its sides.

5 Cairo Governorate

Al-Khalifa and Al-Mokatam Educational Zone
AL Helmia Experimental Lang. School

القاهرة

Answer the following questions :

1 Choose the correct answer :

(1) $3.75 \times 100 =$ ..... (0.375 *or* 375 *or* 3705 *or* 0.0375)

(2) If $7 \in \{6 , x + 1\}$, then $x =$ ..... (6 *or* 7 *or* 8 *or* 5)

(3) Number of altitudes of the right-angled triangle is .....
(0 *or* 1 *or* 2 *or* 3)

(4) $\{1 , 3\} \cap \{2 , 3\} =$ ..... ($\varnothing$ *or* $\{3\}$ *or* $\{1\}$ *or* $\{1 , 2 , 3\}$)

(5) 52 days $\simeq$ ..... weeks. (6 *or* 8 *or* 7 *or* 5)

(6) If $X \subset Y$, then $X \cap Y =$ ..... (X *or* Y *or* $\varnothing$ *or* $\grave{X}$)

(7) $625 \div 25 = 6.25 \div$ ..... (2.5 *or* 0.25 *or* 25 *or* 250)

2 Choose the correct answer :

(8) $\frac{1}{3} \div \frac{2}{7} =$ ..... ($1\frac{1}{6}$ *or* $\frac{6}{7}$ *or* $\frac{2}{21}$ *or* $\frac{13}{21}$)

(9) $\{7\}$ ..... $\{3 , 5 , 7\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(10) 40 gm. = ... kg. (40000 *or* 0.4 *or* 4000 *or* 0.04)

(11) If $\frac{a}{8} = \frac{15}{24}$, then a = ... (9 *or* 5 *or* 3 *or* 10)

(12) Number of subsets of the set $A = \{3 , 5\}$ is .....
(4 *or* 3 *or* 2 *or* 1)

(13) The triangle whose measures of its angles are (20° , 100° , 60°) is called ..... triangle.
(acute-angled *or* right angled *or* obtuse-angled *or* isosceles)

(14) If $\frac{5}{7} < \frac{x}{7} < 1$, then $x =$ ..... (4 *or* 5 *or* 6 *or* 7)

3 Complete each of the following :

(15) $12.34 + 15.172 =$ ..... $\simeq$ ..... (to the nearest hundredth)

(16) $\{1 , 2 , 4\} - \{2 , 4 , 6\} =$ .....

(17) The probability of the certain event is .....

(18) The radius length of a circle whose its diameter length is 5 cm. is ..... cm.

(19) If $\{2 , x\} = \{5 , y\}$, then x = ... , y = ...

(20) The longest chord in the circle is called .....

(21) 4.7896 ≃ ..... (to the nearest thousandth)

(22) 8855 ÷ 253 = ...

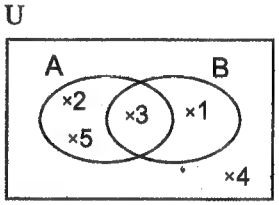
4 Answer the following :

(23) Arrange in an ascending order :

$$0.6 \ , \ \frac{3}{4} \ , \ \frac{1}{2} \text{ and } \frac{2}{3}$$

The order is : ..... , ... , ... and .....

(24) By using the opposite figure , find :



[a] $A \cup B$ = ... [b] $\grave{A}$ = ...

(25) A die tossed once , find the probability of getting :

[a] An even number. [b] A number divisible by 3

.....

(26) Draw Δ ABC where

BC = 8 cm. , AB = AC = 5 cm.

6 Cairo Governorate

Western Cairo Educational Zone
Mathematics Inspection

Answer the following questions :

1 Choose the correct answer :

(1) 3.36 km. = ... m. (3.306 *or* 33.6 *or* 336 *or* 3360)

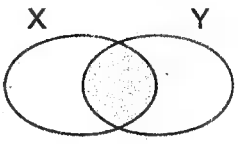
(2) 52.241 × 100 = ...

(522.41 *or* 52241 *or* 5224.1 *or* 522410)

(3) $\{52\}$ ..... $\{5 , 2\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(4) $\frac{5}{8}$ ☐ 0.5734 (< or > or = or otherwise)

(5) The shaded part .....



($X \cap Y$ or $X \cup Y$ or $X - Y$ or $X \subset Y$)

(6) A circle , its radius length = 1 cm. , then its diameter length = ... cm.

(1 or 2 or 3 or 4)

(7) $\frac{1}{3} \times \frac{3}{4}$ = ... ($\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{1}{4}$ or $\frac{4}{12}$)

(8) If $3 \in \{x + 1 , 5\}$, then x = ... (1 or 2 or 3 or 4)

(9) $\frac{4}{12} + \frac{6}{12}$ = ... ($\frac{2}{3}$ or $\frac{4}{3}$ or $\frac{1}{12}$ or $\frac{4}{12}$)

(10) $\{1 , 3 , 4\} - \{3 , 4\}$ = ... ($\{1\}$ or $\{3\}$ or $\{4\}$ or $\{3 , 4\}$)

(11) If $a \in X$, then a ..... $\grave{X}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(12) The right-angled triangle has ..... altitudes. (1 or 2 or 3 or 4)

(13) If $\frac{2}{3} = \frac{a}{12}$, then a = ... (3 or 4 or 8 or 12)

(14) $46.762 \simeq$ ..... (to the nearest hundredth)

(46.762 or 46.8 or 47 or 46.76)

2 Complete the following :

(1) The probability of the certain event = ...

(2) All the radii of the circle are .....

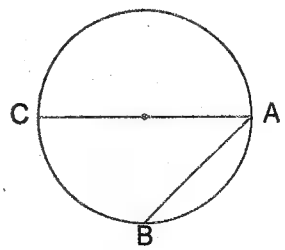
(3) 3978 ÷ ..... = 3.978

(4) 84.61 + 23.473 = ...

(5) $\varnothing$ ..... $\{0\}$

(6) **In the opposite figure :**

$\overline{AB}$ is called ..... of the circle.



(7) The set of the digits of the number 7353 is .....

(8) 2.64×0.2 = ...

3 **Answer the following :**

(1) A box contains identical balls where 6 balls are white , 9 red balls and 5 black balls. If one ball is chosen randomly , what is the probability that the chosen ball is white ?

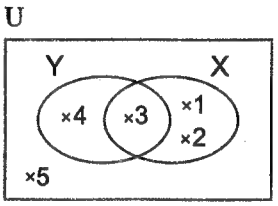
.....

(2) Arrange in a descending order :

4.5 , $4\frac{1}{4}$, $5\frac{3}{4}$ and $5\frac{1}{2}$

The order is : ..... , ... , ... and .....

(3) From the opposite Venn diagram , find :



[a] $X \cup Y$ = ...

[b] $\grave{Y}$ = ...

(4) Draw the triangle ABC in which
AB = 3 cm. , BC = 4 cm. and AC = 5 cm.

7 Giza Governorate

Al-Agoza Educational Directorate
Baby Palace Private School

Answer the following questions :

1 **Choose the correct answer :**

(1) $9\frac{3}{25} \simeq$ ..... (to the nearest tenth) (0.9 *or* 9.2 *or* 9.1 *or* 9)

(2) $1\frac{1}{8} \div 1\frac{1}{8}$ = ... (1 *or* 10 *or* 11 *or* 111)

(3) $\frac{2}{3} \times$ ..... = 1 (1 *or* 2 *or* 3 *or* $\frac{3}{2}$)

(4) $\frac{5}{8}$ ☐ 0.5734 (> *or* < *or* = *or* ≤)

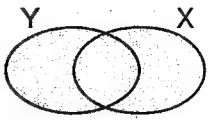
(5) 43 days ≃ ..... weeks (to the nearest week) (4 *or* 5 *or* 6 *or* 7)

(6) $4.6 \div 4.6$ ☐ 0.1 (> *or* < *or* ≤ *or* =)

(7) The smallest number of the following numbers is .....
(0.111 *or* 0.12 *or* 0.123 *or* 1.0123)

(8) If $4 \in \{3 , 5 , x\}$, then x = ... (3 *or* 4 *or* 5 *or* 6)

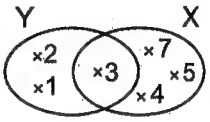
(9) The suitable symbol represents the shaded part in the shape is .....



($X \cap Y$ *or* $X \cup Y$ *or* $Y \subset X$ *or* $X \subset Y$)

(10) $\{50\}$ ..... $\{2 , 5\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(11) In the opposite figure :



$Y \cap X$ = ...

($\{7 , 5 , 4\}$ *or* $\{1 , 2\}$ *or* $\{3\}$ *or* $\{1 , 2 , 3\}$)

(12) If X is the set of odd numbers , then 36 X

($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(13) The number of altitudes of an acute-angled triangle is .....

(1 *or* 2 *or* 3 *or* 4)

(14) The triangle whose measures of its angles are (50° , 90° , 40°) is called ..... triangle.

(an acute-angled *or* an obtuse-angled *or* a right-angled *or* otherwise)

2 Complete :

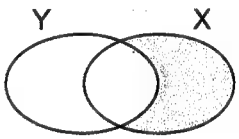
(1) If $\frac{b}{8} = \frac{15}{24}$, then b = ...

(2) 3978 ÷ ..... = 3.978

(3) The number 4.7398 ≃ ..... (to the nearest hundredth)

(4) If X , Y are two sets , $X \subset Y$, then $X \cap Y$ = ...

(5) The shaded part in the opposite figure represents .....



(6) Length of diameter of the circle whose radius length is 1 cm.
= ..... cm.

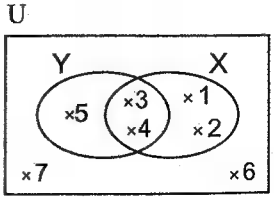
(7) The longest chord in the circle is the .....

(8) The probability of appearing a head when tossing a coin once = ...

3 Answer the following :

(1) Find : 1.775 × 0.15 = ...

(2) **In the opposite figure , complete :**



[a] $X \cap Y$ = ... [b] $\grave{X}$ = ...

(3) In tossing a fair die once , then complete :

[a] Probability of appearing an odd number = ...

[b] Probability of appearing a number greater than 6 = ...

8 Giza Governorate

El-Haram Zone
Al-Mostakbal Modern Language School

Answer the following questions :

1 Choose the correct answer :

(1) 32.5 ÷ 100 = ... (0.32 *or* 0.325 *or* 3250 *or* 325.2)

(2) 5.035 ≃ ..... (to the nearest hundredth)
(5.03 *or* 500 *or* 5.04 *or* 5.3)

(3) If $X \subset Y$, then $X \cap Y$ = ... (X *or* Y *or* U *or* X`)

(4) 327.5 × 100 = ... (3276 *or* 32750 *or* 3.275 *or* 327500)

(5) ∅ ..... {6 , 8} (∈ *or* ∉ *or* ⊂ *or* ⊄)

(6) $\frac{1}{2}$ ☐ $\frac{1}{3}$ (< *or* = *or* > *or* ≤)

(7) The altitudes of the obtuse-angled triangle intersect at one point ..... the triangle. (inside *or* on *or* outside)

(8) 0.4 × 0.2 = ... (8.00 *or* 0.08 *or* 0.8 *or* 0.042)

(9) $\frac{2}{5} \div \frac{1}{4}$ = ... ($\frac{5}{8}$ *or* $\frac{6}{5}$ *or* $\frac{8}{5}$ *or* $\frac{2}{3}$)

(10) 6 ..... {7 , 6 , 8} (∈ *or* ∉ *or* ⊂ *or* ⊄)

(11) The length of the longest chord is 6 cm. , then the length of the radius of the circle = ... cm. (6 *or* 12 *or* 4.5 *or* 3)

(12) The set {1 , 3 , 5 , ...} is ..... set.
(a finite *or* an infinite *or* an empty)

(13) 37440 ÷ 234 = ... (16 *or* 106 *or* 160 *or* 1600)

(14) $\frac{4}{5} \times \frac{1}{3}$ = ... ($\frac{1}{2}$ *or* $\frac{12}{5}$ *or* $\frac{4}{15}$ *or* $\frac{5}{8}$)

2 Complete the following :

(1) If {5 , x} = {7 , y} , then x = ... and y = ...

(2) The probability of the impossible event is .....

(3) The longest chord in the circle is called .....

(4) 76.25 ÷ 10 = ... ≃ ..... (to the nearest hundredth)

(5) The number of altitudes of any triangle is .....

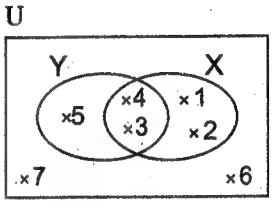
(6) $\frac{4}{12} \div \frac{5}{12}$ = ...

(7) If $X = \{2, 3, 5\}$ and $Y = \{3\}$, then $X \cap Y$ = ...

(8) 9282 ÷ 221 = ...

3 Answer the following :

(1) Use the opposite Venn diagram to find :



[a] $X \cap Y$ = ...

[b] $\grave{Y}$ = ...

(2) A box contains 3 white balls , 7 red balls and 5 yellow balls , one ball is chosen randomly. Find the probability of choosing :

[a] Red ball = ... [b] Green ball = ...

(3) If the price of one metre of cloth is 6.45 pounds , what is the price of 2 metres ?

.....

(4) Draw the circle M of radius length 4 cm.

, then draw the diameter $\overline{AB}$ and the chord $\overline{AC}$ = 5 cm.

9 Giza Governorate

Abo El-Nomros Educational Zone
Royal House Language Schools

Answer the following questions :

1 Choose the correct answer :

(1) $3.75 \times 100 =$ ..... (0.375 *or* 37.5 *or* 375 *or* 0.0375)

(2) $\frac{1}{2}$ ☐ 0.3 (> *or* < *or* =)

(3) If $\frac{1}{2} = \frac{x}{8}$, then $x =$ ..... (1 *or* 3 *or* 4 *or* 5)

(4) $1\frac{2}{3} \times 1\frac{1}{5} =$ ..... ($2\frac{3}{8}$ *or* 2 *or* $1\frac{7}{18}$ *or* $\frac{13}{15}$)

(5) $31.294 \simeq 31.3$ (to the nearest .....)
(tenth *or* hundredth *or* thousandth *or* unit)

(6) The smallest prime number is ..... (1 *or* 2 *or* 3 *or* 0)

(7) $\frac{2}{5} \div \frac{7}{5} =$ ..... ($\frac{14}{25}$ *or* $\frac{2}{7}$ *or* $\frac{7}{2}$ *or* 2)

(8) If $X \subset Y$, then $X \cap Y =$ ..... (X *or* Y *or* $\varnothing$)

(9) $\varnothing$ ..... $\{2 , 6 , 1 , 5\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(10) The set of odd numbers is ..... set.
(a finite *or* an empty *or* an infinite *or* equal)

(11) If $\{5 , 7\} \subset \{x + 2 , 5\}$, then $x =$ ..... (2 *or* 5 *or* 7 *or* 3)

(12) 9 ..... $\{19 , 9\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(13) If the length of the longest chord in a circle is 13 cm. , then the length of any radius = ... cm. (26 *or* 6 *or* 6.5 *or* 11)

(14) The altitudes of the acute-angled triangle intersect at one point ..... the triangle. (inside *or* outside *or* at the vertex of right angle)

2 Complete :

(1) $538.2 + 23.4 =$ .....

(2) $2.3532 \simeq$ ..... (approximate to the nearest $\frac{1}{1000}$)

(3) $18.8 \div 1000 =$ .....

(4) All the radii of the circle are ..... in length.

(5) The number of altitudes of right-angled triangle is .....

(6) $\{2 , 3 , 5\} \cap \{2 , 3 , 4\} =$ .....

(7) All the subsets of the set {2 , 3} are ..... , ... , ... and .....

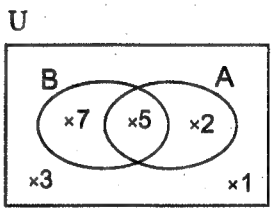
(8) When tossing a coin once , the probability of appearing a head = $\frac{\text{.....}}{\text{.....}}$

3 Answer the following :

(1) If the price of one metre of cloth is L.E. 45.5 What is the price of 3.5 metres ?

.....

(2) By using the opposite Venn diagram , find :



[a] $A \cap B$ = ...

[b] $A \cup B$ = ...

[c] $A - B$ = ...

[d] $\grave{A}$ = ...

(3) A bag contains 5 red balls , 8 black balls and 6 white balls , all of them are identical and equal in size. A ball is drawn randomly calculate the probability that :

[a] The drawn ball is black = ...

[b] The drawn ball isn't green = ...

(4) Draw ΔABC in which AB = BC = CA = 5 cm. , then draw the altitude from A on $\overline{BC}$

10 Alexandria Governorate

Mid Educational Zone
Mathematics Inspection

Answer the following questions :

1 Choose the correct answer :

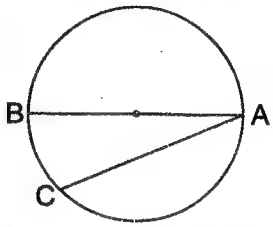
(1) {5 , 2} ..... {52} ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(2) $28.61 \times$ ..... $= 28610$ (10 or 100 or 1000 or 10000)

(3) $\frac{1}{2} \div \frac{9}{4} =$ ..... (in the simplest form) ($\frac{9}{8}$ or $\frac{9}{2}$ or $\frac{2}{9}$ or 1)

(4) $\varnothing$ ..... $\{0\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(5) **In the opposite figure :**
$\overline{AC}$ is called .....



(radius or diameter or centre or chord)

(6) $4812 \div 1000$ ☐ 0.4812×100 ($<$ or $>$ or $=$ or $\geq$)

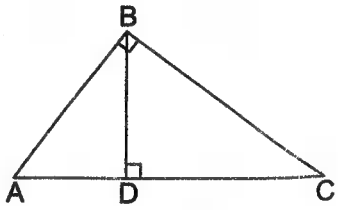
(7) $42.395 + 53.31 \simeq$ ..... (to the nearest $\frac{1}{100}$)

(95.705 or 95.70 or 95.71 or 95.72)

(8) If $5 \in \{x + 3 , 7\}$, then $x =$ ..... (2 or 3 or 4 or 5)

(9) $25.25 \div 0.25 =$ ..... (10.1 or 11 or 1.01 or 101)

(10) **In the opposite figure :**
ABC is right-angled triangle at B
The point of intersection of its altitudes is .....



(A or B or C or D)

(11) 23 ..... the set of prime numbers. ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(12) $\frac{5}{9} \times \frac{9}{25} =$ ..... ($\frac{5}{3}$ or $\frac{3}{5}$ or $\frac{1}{5}$ or $\frac{45}{25}$)

(13) If $X \subset Y$, then $X \cap Y =$ ..... (X or Y or $\varnothing$ or $\grave{Y}$)

(14) 5675 grams $\simeq$ ..... kilograms. (5 or 6 or 56 or 57)

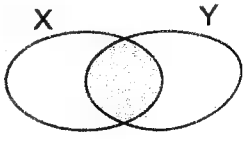
2 Complete :

(1) If $\frac{x}{8} = \frac{15}{24}$, then $x =$ .....

(2) $2.7 \times 0.4 =$ .....

(3) The probability of the sure (certain) event = ...

(4) The shaded part in the opposite figure represents .....



(5) The altitudes of the obtuse-angled triangle intersect in a point lies ..... the triangle.

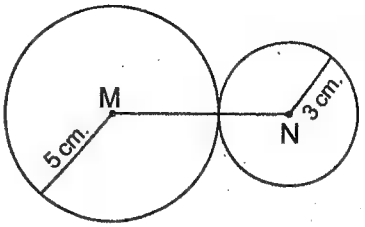
(6) 62.345 + 15.632 = ... ≃ ..... (to the nearest tenth)

(7) {3 , 7 , 2 , 5} – {4 , 2 , 5 , 6} = ...

(8) **In the opposite figure :**

M and N are two circles

, then the length of $\overline{MN}$ = ... cm.

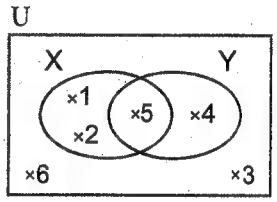


3 Answer the following :

(1) An owner of packing food factory wanted to divide 5904 kg. of sugar equally in 492 packs. What is the weight of each pack ?

.....

(2) From the opposite Venn diagram , find the following :



[a] X ∪ Y = ...

[b] $\grave{X}$ = ...

(3) As throwing a fair die once , find the probability of appearing :

[a] An even prime number = ...

[b] A number divisble by 5 = ...

(4) Draw the triangle ABC

, where BC = 6 cm.

, AB = AC = 5 cm.

Draw $\overline{AD} \perp \overline{BC}$

Find the length of $\overline{AD}$

11 Alexandria Governorate

East Educational Zone
Supervision of Math

Answer the following questions :

1 Choose the correct answer from those between brackets :

(1) 736.592 ≃ 736.59 (to the nearest .....)

(unit *or* tenth *or* hundredth *or* thousandth)

(2) 3.002 kilograms = ... grams.
(30.02 or 300.2 or 3002 or 0.3002)

(3) If $\frac{2}{5} = \frac{a}{15}$, then a = ... (5 or 6 or 8 or 10)

(4) A circle , its radius length = 1 cm. , then its diameter length = ... cm.
(1 or 2 or 3 or 4)

(5) $\frac{3}{8}$ ☐ 0.5 (< or > or = or ≥)

(6) $\{2\} \cup \{4\}$ = ... (24 or ∅ or $\{2, 4\}$ or 6)

(7) 1.7 ÷ 10 = ... (17 or 0.17 or 170 or 0.017)

(8) The number of altitudes in any triangle = ...
(1 or 2 or 3 or 4)

(9) 37.4289 – 14.081 ≃ ..... (to the nearest thousandth)
(23.350 or 23.348 or 23.248 or 23.347)

(10) $\{52\}$ ..... $\{5, 2\}$ (∈ or ∉ or ⊂ or ⊄)

(11) 5.45 ÷ 0.5 = ... (1.9 or 1.09 or 10.9 or 109)

(12) 98.7 × 100 = ... (987 or 9870 or 0.987 or 0.0987)

(13) If $4 \in \{2, x, 5\}$, then x = ... (2 or 4 or 5 or 6)

(14) $\frac{2}{7} \div \frac{5}{7}$ = ... ($\frac{7}{7}$ or $\frac{10}{7}$ or $\frac{2}{5}$ or $\frac{5}{2}$)

2 Complete each of the following :

(1) 354 metres = ... cm.

(2) ..... ÷ 9 = 4.5

(3) $\{5, 6\} \cap \{4, 5\}$ = ...

(4) Tossing a regular coin once , the probability of landing a head = ...

(5) The longest chord in a circle is called .....

(6) 3.6 × 1.3 = 1.3 × .....

(7) 3.26 × 17 = 3.26 × (7 + ...)

(8) A rectangle , its length is 4.1 cm. and its width is 0.5 cm.
, then its area is ..... cm^2

3 Answer the following :

(1) Ahmed bought 12 cans of juice. The price of each can was L.E. 1.75
What is the total cost of juice ?
The total cost of juice = ...

(2) Arrange the following numbers in an ascending order :

$\frac{3}{2}$, $\frac{3}{5}$, $\frac{3}{8}$ and $\frac{3}{4}$

The order is : ..... , ... , ... and .....

(3) Draw a triangle ABC in which
AB = 4 cm. , BC = 5 cm. , AC = 6 cm.

(4) If the probability of a pupil succeed in an exam is $\frac{8}{10}$, find the probability of his fail.

The probability of his fail = ...

12 El-Kalyoubia Governorate

Directorate of Education Zone
Maths Supervision

Answer the following questions :

1 Choose the correct answer :

(1) 3.75×1000 = ... (0.375 *or* 0.0375 *or* 3750 *or* 37.5)

(2) If $\frac{x}{8} = \frac{15}{24}$, then x = ... (2 *or* 3 *or* 4 *or* 5)

(3) The number of altitudes in the right-angled triangle = ...
(0 *or* 1 *or* 3 *or* 2)

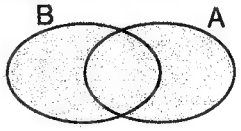
(4) $2\frac{1}{8} \div \frac{1}{8}$ = ... (17 *or* 16 *or* 8 *or* 18)

(5) If $5 \in \{7 , 9 , x , 4\}$, then x = ... (4 *or* 5 *or* 6 *or* 8)

(6) 4.2 dm. = ...
(0.42 cm. *or* 420 cm. *or* 42 cm. *or* 4200 cm.)

(7) 43 days ≃ ..... weeks. (4 *or* 5 *or* 6 *or* 7)

(8) The shaded part in Venn diagram represents .....



($A \cap B$ *or* $A - B$ *or* A' *or* $A \cup B$)

(9) 3.36 km. = ... m. (3360 *or* 336 *or* 3630 *or* 33600)

(10) If M is a circle whose diameter length is 8 cm. where A is a point and MA = 8 cm. , then the point A is located ..... the circle.
(inside *or* outside *or* on *or* on the centre)

(11) $\frac{3}{5}$ ☐ 0.06 (< or > or = or ≤)

(12) $9\frac{3}{25}$ = ... (to the nearest tenth) (9 or 9.2 or 9.13 or 9.1)

(13) $\{5, 4\} - \{7, 9, 8, 4\}$ = ...

($\{5\}$ or $\{7, 9, 4\}$ or $\{7, 8, 4\}$ or $\{9, 5, 8, 4\}$)

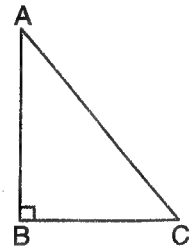
(14) For any set A and its complement A` , then $A \cup A'$ = ...

(A or A` or U or $A \cap A'$)

2 Complete the following :

(1) $4\frac{1}{8} \times 2\frac{2}{3}$ = ...

(2) **In the opposite figure :**
The corresponding height to the base $\overline{BC}$ is .....

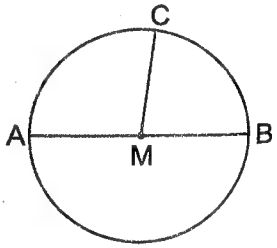


(3) $\frac{3}{25} \div$ ..... $= \frac{3}{25}$

(4) The probability of the certain event = ...

(5) If $Y = \{2, 9, 6\} \cap \{1, 2, 4\}$, then 6 ..... Y

(6) **In the opposite figure :**
$\overline{AB}$ is called .....

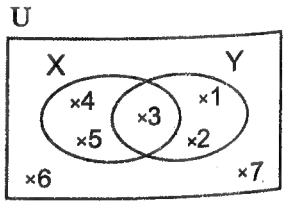


(7) If $X \subset Y$, then $X \cup Y$ = ...

(8) 3978 ÷ ..... = 3.978

3 Answer the following :

(1) Look at the opposite Venn diagram , then find :



[a] $X \cap Y$ = ...

[b] $(X \cup Y)'$ = ...

(2) Find with steps :

[a] 21.6 ÷ 1.2 = ... ÷ ..... = ...

[b] $5\frac{1}{2} \div 3\frac{2}{3}$ = ... ÷ ..... = ...

(3) A bag contains 5 white marbles , 7 black marbles and 3 red marbles , randomly one marble is selected, find :

[a] The probability of selecting a black marble = ...

[b] The probability of selecting a white or red marble = ...

(4) Draw the triangle ABC where AB = 4 cm. , BC = 6 cm. and CA = 8 cm.
Then draw a circle its centre is B and its radius length is 4 cm.

13 El-Sharkia Governorate

Menia El-Qamh Educational Zone
Mathematics Inspection

Answer the following questions :

1 Choose the correct answer :

(1) 4 ..... $\{5 , 4 , 32\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(2) $402.5 \times 100 =$ ..... (40.25 or 4.025 or 40250 or 4025)

(3) $\frac{1}{8} \simeq$ ..... (to the nearest hundredth)
(0.125 or 0.12 or 0.13 or 0.1)

(4) 5.63 km. = ... m. (5.63 or 5630 or 563 or 56.3)

(5) $\varnothing$ ..... $\{0\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(6) Every triangle has ..... altitudes. (1 or 2 or 3 or 4)

(7) If $X \subset Y$, then $X \cap Y =$ ..... (U or X or Y or $\varnothing$)

(8) The chord which passes through the centre of a circle is called .....
(diameter or radius or centre or side)

(9) When tossing a coin once the probability of appearing a tail = ...
(1 or $\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{6}$)

(10) $255 \div 25 = 2.55 \div$ ..... (2.5 or 0.25 or 25 or 2500)

(11) 40 days $\simeq$ ..... weeks. (4 or 6 or 5 or 7)

(12) $4\frac{1}{8} \times 2\frac{2}{3} =$ ..... (1 or 10 or 11 or 111)

(13) If $\{5 , 7\} = \{7 , x + 3\}$, then $x =$ ..... (3 or 5 or 2 or 1)

(14) $\frac{1}{2} \square \frac{1}{3}$ (< or > or =)

2 Complete :

(15) $\frac{2}{3} \times$ ..... = 1

(16) If $\frac{x}{8} = \frac{15}{24}$, then $x =$ .....

(17) The probability of the sure event = ...

(18) A circle which its diameter length is 10 cm. , the length of its radius is ..... cm.

(19) 806.7 ÷ 100 = ...

(20) If $5 \in \{3 , 4 , x\}$, then x = ...

(21) $\{4 , 7\} \cap \{2 , 7\}$ = ...

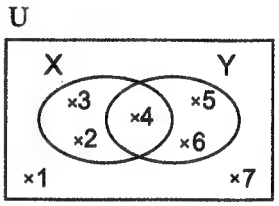
(22) The longest chord in a circle is called .....

3 Answer the following :

(23) If the price of piece of sweet is 2.25 pounds, what is the price of 25 pieces of the same kind ?

.....

(24) Using the opposite Venn diagram , find :



[a] $X \cap Y$ = ...

[b] $X \cup Y$ = ...

[c] $X - Y$ = ...

[d] Y' = ...

(25) A box contains 5 blue balls , 2 red balls , 4 white balls.
Find the probability of getting :

[a] A white ball = ...

[b] A red ball = ...

(26) Draw the triangle ABC where
AB = 3 cm. , BC = 4 cm. and AC = 5 cm.

14 El-Gharbia Governorate

El-Gharbia Educational Directorate
Math's Supervision

Answer the following questions :

1 Choose the correct answer :

(1) 2586.3 ÷ 100 = ...

(25.863 *or* 258.63 *or* 2586.3 *or* 0.25863)

(2) 2.25 ÷ 1.5 = ... (105 or 1.5 or 15 or 0.15)

(3) X ∩ ∅ = ... (zero or X or ∅ or {0})

(4) The altitudes of the triangle intersect at .....

(one point or two points or three points or four points)

(5) 6.85 × 1000 = ... (68.50 or 685 or 6850 or 685000)

(6) The probability of the impossible event = ...

(0 or 1 or 0.5 or ∅)

(7) If $\{4 , x + 2\} = \{7 , 4\}$, then x = ... (4 or 5 or 7 or 9)

(8) The longest chord in the circle is called .....

(radius or centre or side or diameter)

(9) 255 ÷ 25 = 2.55 ÷ ..... (25 or 0.25 or 2.5 or 2500)

(10) 5.6 tons = ... kg. (5600 or 650 or 2.5 or 2500)

(11) 8 ..... {7 , 5 , 8} (∈ or ∉ or ⊂ or ⊄)

(12) ∅ ..... {0 , 1 , 3} (∈ or ∉ or ⊂ or ⊄)

(13) 12 ..... the set of days of the week. (∈ or ∉ or ⊂ or ⊄)

(14) 10 halves ☐ 20 fifths. (≤ or > or < or =)

2 Complete the following :

(1) The diameter of a circle is a chord that crosses the .....

(2) {1 , 2} ∪ {2 , 3} = ...

(3) {5 , 7} – {1 , 2} = ...

(4) 4 tens ÷ 8 tenths = ...

(5) If X ∩ Y = ∅ , then X and Y are .....

(6) The probability of the sure event = ...

(7) 5.766 ≃ ..... $\left(\text{to the nearest } \frac{1}{100}\right)$

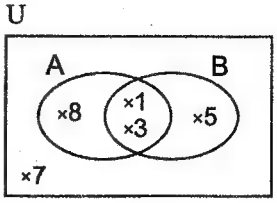
(8) 66.7 ÷ 1000 = ...

3 Answer the following :

(1) 7.4 × 2.2 = ...

(2) 12474 ÷ 231 = ... (show the steps)

(3) Using the opposite Venn diagram , find :



[a] $A \cup B$ = ... [b] $A \cap B$ = ...

[c] $B - A$ = ... [d] $\grave{B}$ = ...

(4) Draw the triangle ABC in which
AB = BC = CA = 6 cm. , then
draw $\overline{AD} \perp \overline{BC}$, then
find the length $\overline{BD}$ and m ($\angle$ B)

(5) A bag contains 5 white balls , 9 red balls and 6 black balls , all the balls are identical and equal in size , if a ball is drawn randomly. What is the probability that the drawn ball is :

[a] White ? [b] Not white ?

[c] White or red ?

15 El-Dakahlia Governorate

Mathematics Supervision
Math Department

Answer the following questions :

1 Choose the correct answer :

(1) 0.23×1.9 ☐ 0.019×23 (< or > or = or ≠)

(2) If $X \subset Y$, then $X \cup Y$ = ... (X or Y or U or ∅)

(3) $32.683 \simeq$ ..... (to the nearest 0.01)
(23.68 or 32.69 or 32.7 or 32.68)

(4) If {a , 3 , 5} = {b , 5 , 2} , then a + b = ...
(2 or 3 or 5 or 8)

(5) ..... is used for drawing a circle.
(Set square or Ruler or Compasses or Protractor)

(6) ..... is a chord passing through the centre of circle.
(Radius or Chord or Diameter or Centre)

(7) If A and B are disjoint sets , then A – B = ...
(∅ or A or B or U)

(8) 39 days $\simeq$ ..... weeks. (5 or 6 or 7 or 8)

(9) $\{1, 2, 3\}$ ..... $\{1, 2\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(10) The number of altitudes in the acute-angled triangle is .....
(0 or 1 or 2 or 3)

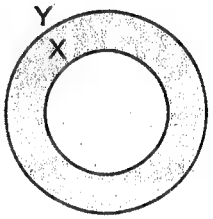
(11) $1.92 \div$ ..... $= 0.0192$ (10 or 100 or 1000 or 10000)

(12) $\frac{2}{3} \times$ ..... $= 1$ ($\frac{2}{3}$ or 1 or $\frac{3}{2}$ or 2.3)

(13) $355 \div 18 = 3.55 \div$ ..... (1.8 or 0.18 or 18 or 1800)

(14) $\hat{A}$ = ... (U – A or A or B or $\varnothing$)

2 Complete :



(1) The shaded part represents .....

(2) 245 dm. = ... m.

(3) If M is the centre of a circle , $\overline{AB}$ is a chord such that $M \in \overline{AB}$, then $\overline{AB}$ is called .....

(4) $5904 \div 492$ = ... (show steps in the rectangle).

(5) The probability of the certain event = ...

(6) $2\frac{2}{3} \div \frac{4}{3}$ = ...

(7) $\{2, 4, 5\} \cap \{0, 2, 4\}$ = ...

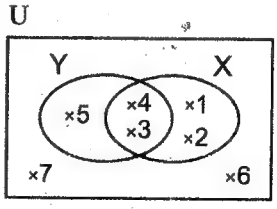
(8) Radius length of a circle = ... × diameter length.

3 Answer the following :

(1) If the length of a rectangle is 2.65 cm. and its width 1.5 cm.
Calculate its area to the nearest tenth.

.....

(2) From the opposite figure , complete :



[a] $X \cup Y$ = ... [b] $X \cap Y$ = ...

[c] $X - Y$ = ... [d] $(X \cup Y)'$ = ...

(3) A card has been drawn randomly out of 10 cards numbered from 1 to 10 , find the probability of getting :

[a] An odd number = ...

[b] A prime number = ...

[c] An even number between 4 and 6 = ...

[d] A factor of the number 9 = ...

(26) Draw a circle M of radius length 2.5 cm. and draw $\overline{MA}$ as a radius , then complete the equilateral triangle MAB , then find the perimeter of the triangle.

The perimeter = ...

16 Ismailia Governorate

Directorate of Education
24th October G.L.S.

Answer the following questions :

1 Choose the correct answer :

(1) 736.592 ≃ 736.59 (to the nearest .....)

(unit **or** tenth **or** hundredth **or** thousandth)

(2) The number of altitudes of any triangle is ..... (1 **or** 2 **or** 3 **or** 4)

(3) $X \cap \grave{X}$ = ... (X **or** $\grave{X}$ **or** U **or** $\varnothing$)

(4) 37.4289 – 14.081 ≃ ..... (to the nearest $\frac{1}{1000}$)

(23.349 **or** 23.350 **or** 23.348 **or** 23.248)

(5) 5.748 × 100 = ... (57.48 **or** 0.5748 **or** 574.8 **or** 5748)

(6) 4 ..... {2 , 5} ($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(7) $\frac{4}{7}$ ☐ $\frac{5}{9}$ (< **or** = **or** >)

(8) 3.36 km. = ... m. (3.36 **or** 33.6 **or** 336 **or** 3360)

(9) 0.06 × 0.3 = ... (18 **or** 0.018 **or** 0.18 **or** 0.09)

(10) The chord which passes through the centre of a circle is called .....

(diameter **or** radius **or** centre **or** side)

(11) If {4 , 8} = {1 + y , 4} , then y = ... (3 **or** 4 **or** 6 **or** 7)

(12) 2.125 ÷ 0.25 = ... ÷ 25

(212.5 **or** 21.25 **or** 2125 **or** 21250)

(13) The set of odd numbers is ..... set.

(a finite **or** an empty **or** an infinite)

(14) If $X \subset Y$, then $X - Y$ = ... (X **or** $\varnothing$ **or** Y)

2 Complete :

(15) The probability of the impossible event = ...

(16) ..... $\times 2\frac{1}{2} = 1$

(17) $\varnothing$ ..... $\{8 , 10\}$

(18) $3\frac{1}{4} \div \frac{1}{4}$ = ...

(19) 5 ..... $\{7 , 5 , 3\}$

(20) To draw a circle with diameter length 8 cm. , we open the compasses ..... cm.

(21) $5\frac{2}{3} \times \frac{3}{17}$ = ...

(22) If ABC is an equilateral triangle of side length 4 cm. , then its perimeter = ... cm.

3 Answer the following :

(23) Arrange in an ascending order :

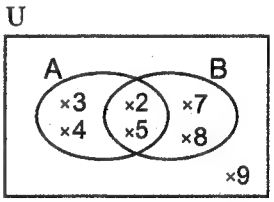
$3\frac{1}{4}$, 3.3 , 3.125 and $3\frac{1}{2}$

.....

(24) From the oppositle Venn diagram , find :

[a] $A \cup B$ = ... **[b]** $A \cap B$ = ...

[c] $A - B$ = ... **[d]** $\grave{B}$ = ...



(25) Draw ABC isoscles triangle in which

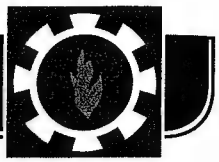
AB = AC = 5 cm. , BC = 6 cm.

and draw $\overline{AD} \perp \overline{BC}$, then find by measuring the length of $\overline{AD}$

(26) A box contains 5 white balls , 4 blue balls and 2 red balls , find the probability of getting :

[a] A blue ball = ... **[b]** A red ball = ...

17 Suez Governorate — Maths Inspectorate



Answer the following questions :

1 Choose the correct answer :

(1) 2.45 km. = ... m. (24.5 *or* 245 *or* 0.245 *or* 2450)

(2) The longest chord in a circle is called a .....

(chord *or* diameter *or* radius *or* otherwise)

(3) $\frac{1}{4}$ = ... (0.2 *or* 0.5 *or* 0.25 *or* 2.5)

(4) $\frac{1}{3}$ ☐ $\frac{1}{2}$ (> *or* < *or* = *or* ≥)

(5) 36 days ≃ ..... weeks (to the nearest week) (4 *or* 5 *or* 6 *or* 7)

(6) 57.3 × 100 = ... (0.573 *or* 0.0573 *or* 5730 *or* 5.73)

(7) $2\frac{2}{3} \times 4\frac{1}{8}$ = ... (11 *or* 10 *or* 1.1 *or* 111)

(8) 2 ..... the set of digits of 1325 (∈ *or* ∉ *or* ⊂ *or* ⊄)

(9) If $8 \in \{3 , 5 , 4x\}$, then x = ... (2 *or* 3 *or* 4 *or* 5)

(10) If $a \in X$, then a ..... X (∈ *or* ∉ *or* ⊂ *or* ⊄)

(11) The smallest number from the following is .....

(0.123 *or* 0.111 *or* 0.12 *or* 1.023)

(12) If $\{4 , 5 , 6\} = \{6 , 4 , x + 1\}$, then x = ...

(4 *or* 5 *or* 6 *or* 3)

(13) When tossing a coin once , then the probability of appearing a head = ... (0 *or* 1 *or* 2 *or* $\frac{1}{2}$)

(14) 3.36 ÷ 0.6 = ... (5.6 *or* 56 *or* 0.56 *or* 6.5)

2 Complete :

(1) If $\frac{3}{8} = \frac{a}{24}$, then a = ...

(2) $\frac{3}{7} \times$ ..... = 1

(3) If $X \subset Y$, then $X \cup Y$ = ...

(4) The point of intersection of the three altitudes of obtuse-angled triangle lies ..... the triangle.

(5) The probability of the sure event is .....

(6) A circle , its diameter length = 6 cm. , then its radius length = ... cm.

(7) $7.52 + (14.73 - 11.53) \simeq$ ..... (to the nearest $\frac{1}{10}$)

(8) When tossing a fair die once , then the probability of appearing the number 7 is .....

3 Answer the following :

(1) Arrange in a descending order :

$\frac{1}{4}$, 0.8 , 0.4 and $\frac{1}{2}$

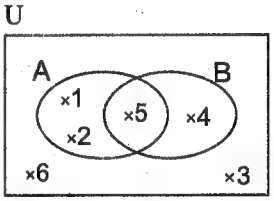
.....

(2) Draw the triangle ABC in which

AB = AC = 5 cm. , BC = 8 cm.

Draw the altitude $\overline{AD}$, find its length.

(3) From the opposite Venn diagram , find :



[a] $A \cup B$ = ... [b] $A \cap B$ = ...

[c] $A - B$ = ... [d] B' = ...

(4) A box contains identical balls where 5 balls are white , 9 red balls and 6 black balls , if one ball is chosen randomly , what is the probability that the chosen ball is white ?

.....

18 Damietta Governorate

Damietta Educational Directorate
Maths Inspection

Answer the following questions :

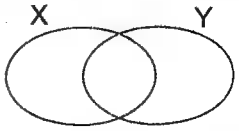
1 Choose the correct answer :

(1) $7\frac{1}{8} \simeq$ ..... (to the nearest tenth) (0.7 *or* 7.2 *or* 7.1 *or* 7)

(2) If $\{6 , 10\} \subset \{10 , x - 4\}$, then x = ...

(2 *or* 4 *or* 6 *or* 10)

(3) The shaded part is .....



($X \cap Y$ *or* $X - Y$ *or* $Y - X$ *or* $Y \cup X$)

(4) $0.312 \times 100 \square 312 \div 100$ (> or < or = or ≤)

(5) A square of side length = 3.5 cm. , then its area = ... cm^2.

(14 or 122.5 or 12.25 or 7)

(6) A circle M , the length of its diameter = 10 cm. , if MA = 8 cm. , then the point A lies ..... the circle.

(inside or outside or on or otherwise)

(7) 43 days ≃ ..... weeks. (to the nearest week)

(4 or 5 or 6 or 7)

(8) $A - \grave{A}$ = ... ($\grave{A}$ or A or $\varnothing$ or U)

(9) 736.592 ≃ 736.59 (to the nearest .....)

(unit or tenth or hundredth or thousandth)

(10) If $X \subset Y$, then $X \cup Y$ = ... (X or Y or $\varnothing$ or U)

(11) The quotient of diving 1.92 ÷ 0.6 = ...

(3.5 or 3.2 or 3.1 or 3)

(12) 7.3 m. = ... dm. (7.3 or 0.73 or 73 or 730)

(13) The altitudes of the obtuse-angled triangle intersect at one point located ..... the triangle.

(inside or on or outside or otherwise)

(14) 7 ..... the set of days of the week. ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

2 Complete the following :

(1) The number of subsets of the set {a , b} is .....

(2) If $\frac{x}{3} = \frac{20}{12}$, then x = ...

(3) The number of altitudes in the equilateral triangle = ...

(4) $2\frac{3}{4} \div 1\frac{3}{8}$ = ...

(5) As throwing a fair die once , then the probability of appearing a number less than 3 is .....

(6) {2 , 4 , 6} ∩ the set of all factors of the number 6 = ...

(7) Any chord passing through the centre of a circle is called .....

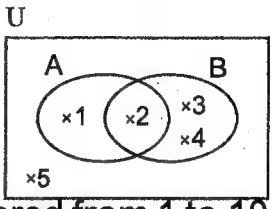
(8) The ascending order of $\frac{1}{4}$, $\frac{4}{5}$, 0.4 and $\frac{3}{4}$ is ..... , ... , ... and .....

3 **Answer the following :**

(1) A factory produces 235 pieces of cloth monthly. In how many months does it produce 26555 pieces of cloth ?

.....

(2) From the opposite Venn diagram , find the following :



[a] $A \cap B$ = ... **[b]** $A \cup B$ = ...

[c] $A - B$ = ... **[d]** A' = ...

(3) A card has been randomly drawn out of 10 cards numbered from 1 to 10 Find the probability of getting :

[a] A prime number = ...

[b] An even number less than 6 = ...

(4) Draw the triangle ABC in which

AB = 4 cm. , BC = 6 cm. and CA = 8 cm.

, then draw a circle whose centre is B

and its radius length is equal to 4 cm.

, then complete :

..... is called the radius of the circle.

19 Kafr El-Sheikh Governorate — Maths Supervision

Answer the following questions :

1 **Complete :**

(1) If $A \subset B$, then $A - B$ = ...

(2) $2\frac{3}{4} \div 1\frac{3}{8}$ = ...

(3) The longest chord in the circle is called .....

(4) 3.125×4.3 = ... $\simeq$ ..... (to the nearest 0.01)

(5) $\frac{2}{5} \times 15$ = ...

(6) The number of subsets of the set A = {5 , 2} is .....

(7) The number of altitudes of the right - angled triangle is .....

(8) The probability of the impossible event = ...

2 Choose the correct answer :

(9) 806.7 ÷ 100 = ... (80.67 *or* 8.607 *or* 8.076 *or* 8.067)

(10) {5} ..... {15 , 55} (∈ *or* ∉ *or* ⊂ *or* ⊄)

(11) The altitudes of any triangle intersect at .....

(three points *or* two points *or* one point *or* zero point)

(12) 40 days ≃ ..... weeks. (to the nearest week)

(8 *or* 7 *or* 6 *or* 5)

(13) $2.7 \times 3.5 \square 0.27 \times 35$ (≠ *or* > *or* < *or* =)

(14) If $\{3 , 5\} - \{5 , x\} = \varnothing$, then x = ... (3 *or* 5 *or* 8 *or* 2)

(15) ∅ ..... {0 , 7} (∈ *or* ∉ *or* ⊂ *or* ⊄)

(16) 255 ÷ 25 = 2.55 ÷ ..... (2.5 *or* 0.25 *or* 25 *or* 2500)

(17) $\frac{3}{7} \times 1\frac{5}{9}$ = ... ($\frac{3}{2}$ *or* $\frac{2}{3}$ *or* $1\frac{15}{63}$ *or* $\frac{3}{4}$)

(18) 6630 ÷ 195 = ... (304 *or* 340 *or* 430 *or* 34)

(19) If $5 \in \{2 , x + 4 , 7\}$, then x = ... (1 *or* 5 *or* 9 *or* 13)

(20) $2 \square \frac{9}{4}$ (> *or* < *or* = *or* ≥)

(21) If X – Y = X , then X ∩ Y = ... (X *or* Y *or* U *or* ∅)

(22) A circle , its radius length = 3.5 cm. , then its diameter length = ... cm.

(5 *or* 6.10 *or* 7 *or* 8)

3 Answer the following :

(23) A card is drawn from numbered cards from 1 to 10 randomly.
Find the probability that the drawn card is carrying :

[a] An odd number = ... [b] A prime number = ...

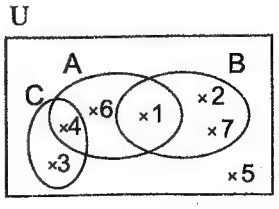
[c] A number less than 11 = ...

[d] A whole number between 5 and 6 = ...

(24) The opposite Venn diagram represents the sets A , B , C and U , complete :

[a] A ∪ C = ... [b] A ∩ B = ...

[c] B – C = ... [d] $(A \cup B)'$ = ...



(25) Arrange the following fractions in an ascending order :

$14\frac{1}{4}$, 15.025 , 14.375 and $14\frac{1}{8}$

The order is : ..... , ... , ... and .....

(26) Draw the triangle ABC in which
AB = 7 cm. , BC = CA = 6 cm.
, then draw the line segment from
the point C that is perpendicular to $\overline{AB}$
, and find its length.

20 El-Beheira Governorate

Damanhur Educational Directorate
Al-Farabi Language School

Answer the following questions :

1 Choose the correct answer :

(1) The triangle which the measures of its angles are 50° , 90° and 40° is called ..... triangle.
(acute-angled **or** obtuse-angled **or** right-angled **or** otherwise)

(2) $4\frac{1}{3} \times 2\frac{1}{13}$ = ... (1 **or** 10 **or** 9 **or** 111)

(3) If $\{7 , 10\} = \{10 , x + 4\}$, then x = ... (3 **or** 4 **or** 5 **or** 6)

(4) 3.75 × 1000 = ... (0.375 **or** 0.0375 **or** 3750 **or** 37.5)

(5) $\frac{1}{2}$ ☐ $\frac{1}{3}$ (< **or** > **or** = **or** otherwise)

(6) 9.989 ≃ ..... (to the nearest 0.01) (9.9 **or** 10 **or** 9.99 **or** 9)

(7) 55.241 × 100 ☐ 522.41 × 10 (< **or** > **or** = **or** otherwise)

(8) $\frac{2}{3}$ × ..... = 1 (1 **or** 2 **or** 3 **or** $\frac{3}{2}$)

(9) 43 days ≃ ..... weeks. (4 **or** 6 **or** 5 **or** 7)

(10) Each chord passing through the centre of the circle is called a ..... in the circle. (diameter **or** radius **or** side **or** otherwise)

(11) The smallest number from the following is .....
(0.111 **or** 0.12 **or** 0.123 **or** 1.023)

(12) If Y = $\{2 , 4 , 6\} \cup \{1 , 2 , 3\}$, then 6 ..... Y
($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(13) A class has 40 pupils, 25 of them are boys and the remainder are girls , if a pupil is chosen randomly , then the probability that the chosen pupil is a girl = ... ($\frac{3}{8}$ **or** $\frac{5}{8}$ **or** $\frac{3}{5}$ **or** 1)

(14) The number of the altitudes in any triangle = ...

(1 or 2 or 3 or 4)

2 Complete each of the following :

(1) $\frac{4}{6} \div \frac{6}{12}$ = ...

(2) The probability of the certain event = ...

(3) If X and Y are two sets and $X \subset Y$, then $X \cap Y$ = ...

(4) If $5 \in \{1 , x\}$, then x = ...

(5) 4.6788 $\simeq$ ..... (to the nearest thousandth)

(6) 2.25 ÷ 1.5 = ...

(7) 3.453 + 4.332 = ... $\simeq$ ..... $\left(\text{to the nearest } \frac{1}{100}\right)$

(8) 0.532 × 3.2 = ...

3 Answer the following :

(1) If the universal set $U = \{x : x \text{ is an odd number} , 1 \leq x \leq 15\}$, $X = \{1 , 3\}$, $Y = \{1 , 5 , 9 , 13\}$, draw a Venn diagram which expresses the sets U , X and Y , then find :

[a] $X \cap Y$ = ... [b] $\grave{Y}$ = ...

(2) Draw Δ ABC in which AB = 7 cm. , BC = CA = 6 cm. , then draw the line segment from point C that is perpendicular to $\overline{AB}$ at D and find its length.

(3) A bag contains 5 white balls , 9 red balls and 6 black balls. If one ball is chosen randomly , what its the probability that the chosen ball is :

[a] White ? ..... [b] Not red ? .....

(4) A rectangle whose length is 4.1 cm. and width is 3.5 cm. , calculate its area.

.....

21 El-Menia Governorate

El-Menia Educational Zone
Kafr El-Mansoura Formal Language School

Answer the following questions :

1 Choose the correct answer :

(1) $\frac{5}{6} \div 1\frac{1}{6} =$ ..... ($\frac{5}{7}$ or $\frac{2}{6}$ or $\frac{3}{7}$ or $\frac{7}{6}$)

(2) 43 days $\simeq$ ..... weeks (to the nearest week) (4 or 6 or 5 or 7)

(3) If $\{2 , 3 , 4\} = \{3 , 4 , x\}$, then $x =$ ..... (2 or 3 or 4 or 5)

(4) 10×4.72 ☐ 100×0.472 (> or < or = or $\neq$)

(5) In any triangle , the number of its altitudes = ...

(1 or 2 or 3 or 4)

(6) $3\frac{1}{8} \simeq$ ..... (to the nearest hundredth)

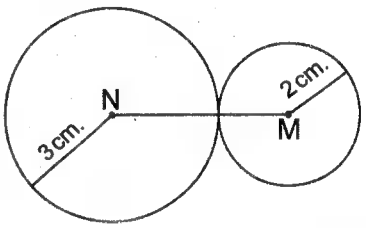
(3.10 or 3.12 or 3.13 or 3.11)

(7) $\varnothing$ ..... $\{0\}$ (= or $\subset$ or $\not\subset$ or $\in$)

(8) 3.36 km. = ... m. (3.36 or 33.6 or 336 or 3360)

(9) **In the opposite figure :**

MN = ... cm.



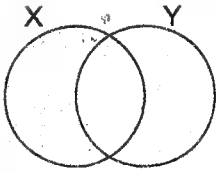
(2 or 3 or 6 or 5)

(10) If $X = \{3 , 4 , 5\}$, $Y = \{2 , 3 , 4\}$, then 5 ..... X – Y

($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(11) 48.2×3.7 ☐ 4.82×37 (> or < or = or $\neq$)

(12) The shaded part represents .....



($X \cap Y$ or $X \cup Y$ or $X - Y$ or $Y - X$)

(13) $12.3 \times$ ..... = 1230 (10 or 100 or 1000 or 10000)

(14) $\{52\}$ ..... $\{5 , 2\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

2 Complete :

(1) $2.03 \times 0.07 =$ .....

(2) A circle of diameter length 4 cm. , then its radius length = ... cm.

(3) If the probability of a pupil succeed in an exam is $\frac{8}{10}$, then the probability of his fail = ...

(4) $2\frac{1}{4} \times \frac{\text{.....}}{\text{.....}} = 1$

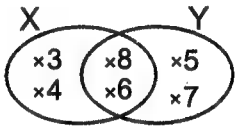
(5) The longest chord in a circle is called .....

(6) If $X \subset Y$, then $X \cap Y =$ .....

(7) If $\frac{b}{8} = \frac{15}{24}$, then b = ...

(8) **In the opposite figure :**

$X \cap Y =$ .....



3 Answer the following :

(1) Arrange in a descending order :

$\frac{1}{2}$, 0.8 , $\frac{1}{4}$ and 0.3

The descending order is : ..... , ... , ... and .....

(2) Find the subsets of the set {8}

The subsets are ..... and .....

(3) From the table , find the probability that a pupil plays basketball :

Game	Football	Basketball	Handball
Number of pupils	50	40	10

The probability = ...

(4) Draw the triangle ABC where :

AB = 4 cm. , BC = 6 cm. , CA = 8 cm.

, then draw a circle its centre B

and its radius length 4 cm.

22 Souhag Governorate — Maths Supervision

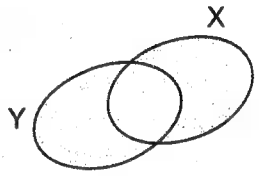
Answer the following questions :

1 Choose the correct answer :

(1) $9\frac{3}{25} \simeq$ ..... (to the nearest tenth) (0.9 *or* 9.2 *or* 9.1 *or* 9)

(2) $0.312 \times 100 \square 312 \div 100$ (> *or* < *or* = *or* ≤)

(3) The shaded part represents .....



($X \cup Y$ *or* $X \cap Y$ *or* $X - Y$ *or* $Y - X$)

(4) The number of altitudes in the right-angled triangle is .....

(1 *or* 2 *or* 3 *or* 4)

(5) If $\{7 , 10\} \subset \{10 , x + 4\}$, then x = ...

(3 *or* 4 *or* 5 *or* 6)

(6) The reciprocal of $3\frac{1}{2}$ is ..... ($\frac{7}{2}$ *or* $\frac{2}{7}$ *or* $3\frac{2}{1}$ *or* 8)

(7) $5.035 \simeq$ ..... $\left(\text{to the nearest } \frac{1}{100}\right)$ (5 *or* 500 *or* 5.04 *or* 5.03)

(8) The set of odd numbers is ..... set.

(a finite *or* an empty *or* an infinite)

(9) The number of subsets of the set $\{a , b\}$ is .....

(3 *or* 4 *or* 5 *or* 2)

(10) The length of the longest chord in the circle is 6 cm. , then the length of the radius of this circle = ... cm. (6 *or* 3 *or* 4.5 *or* 12)

(11) $\{7 , 8\}$ ..... $\{5 , 7 , 10\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(12) $\frac{5}{6} \div 1\frac{1}{6}$ = ... ($\frac{5}{7}$ *or* $\frac{2}{6}$ *or* $\frac{3}{7}$ *or* $\frac{7}{8}$)

(13) If $\frac{a}{3} = \frac{5}{15}$, then a = ... (4 *or* 5 *or* 1 *or* 2)

(14) 12 ..... $\{10 , 2\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

2 Complete each of the following :

(1) 3.002 kg. = ... gm.

(2) The probability of the sure event = ...

(3) $\frac{3}{7}$ × ..... = 1

(4) If $X \subset Y$, then $X \cap Y$ = ...

(5) The area of a rectangle of 15.5 metres long and 5.5 metres wide is ..... m^2.

(6) 3.75 × 1000 = ...

(7) The longtest chord in a circle is called a .....

(8) 6.3729 ≃ ..... $\left(\text{to the nearest } \frac{1}{1000}\right)$

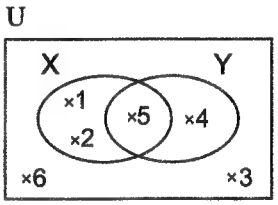
3 Answer the following :

(1) Arrange the following numbers in an ascending order :

$\frac{1}{4}$, 0.8 , 0.4 , $\frac{1}{2}$ and $\frac{3}{4}$

The ascending order is : ..... , ... , ... , ... and .....

(2) Look at the opposite Venn diagram , then complete :



[a] $X \cup Y$ = ...

[b] $X - Y$ = ...

[c] $(X \cup Y)'$ = ...

[d] $X \cap Y$ = ...

(3) Draw the triangle ABC where

AB = 6 cm. and BC = AC = 5 cm.

(4) If the price of one metre of cloth is L.E. 39.8 , what is the price of 8.5 metres to the nearest L.E. ?

.....

(5) A box contains 3 white balls , 7 red balls and 5 yellow balls , all of equal size , one ball is chosen randomly , find the probability of getting :

[a] A white ball = ... [b] Not yellow ball = ...

23 Qena Governorate

Qena Directorate Education
Experimental Language School

محافظة قنا

Answer the following questions :

1 Choose the correct answer :

(1) 3.36 km. = ... m. (3.36 *or* 33.6 *or* 336 *or* 3360)

(2) 9.16 = ... (to the nearest tenth) (0.9 *or* 9.2 *or* 9.1 *or* 9)

(3) 0.312 × 100 ☐ 312 ÷ 100 (< *or* > *or* = *or* ≤)

(4) The smallest number from the following is .....

(0.111 *or* 0.12 *or* 0.123 *or* 1.023)

(5) $\frac{5}{6} \div 1\frac{1}{6}$ = ... ($\frac{5}{7}$ *or* $\frac{2}{6}$ *or* $\frac{3}{7}$ *or* $\frac{7}{6}$)

(6) A circle with a diameter length 6 cm. , then its radius length = ... cm.

(2 *or* 4 *or* 3 *or* 6)

(7) The probability of the impossible event = ...

(0 *or* 1 *or* 0.5 *or* 2)

(8) If $X \subset Y$, then $X \cup Y$ = ... (X *or* Y *or* U *or* $\varnothing$)

(9) As throwing a fair die once , then the probability of getting an odd number = ... (1 *or* 0 *or* $\frac{1}{2}$ *or* $\frac{1}{3}$)

(10) The number of altitudes of a triangle = ...

(1 *or* 2 *or* 0.5 *or* 3)

2 Complete the following :

(1) The longest chord in the circle is called .....

(2) If $\{4 , 6\} = \{1 + x , 4\}$, then x = ...

(3) 2.5 × 2.31 = ...

(4) $5\frac{1}{3} \times 6$ = ...

(5) $\frac{2}{5} \div \frac{7}{5}$ = ...

3 Answer the following :

(1) If $U = \{1 , 2 , 3 , 4 , 5 , 6 , 9\}$, $X = \{2 , 3 , 5\}$ and $Y = \{2 , 4 , 6\}$
Represent each of X , Y and U using a Venn diagram , then find :

[a] $X \cup Y = \{\ldots\ldots\}$

[b] $X \cap Y = \{\ldots\ldots\}$

[c] $U - X = \{\ldots\ldots\}$

[d] $\grave{Y} = \{\ldots\ldots\}$

(2) Find the area of the rectangle whose length is 4.1 cm. and its width is 3.5 cm.

The area of the rectangle = ...

(3) Rearrange the following fractions descendingly :

$\frac{1}{2}$, 0.8 , $\frac{1}{4}$ and 0.3

The order is : ..... , ... , ... and .....

(4) Draw the equilateral triangle ABC whose side length = 5 cm. , then draw $\overline{AD} \perp \overline{BC}$, then find :

[a] The perimeter of triangle ABC

[b] m ($\angle$ CAD) by measuring.

(5) A fair die is thrown once , what is the probability of each the following events ?

[a] Appearing an odd number = ...

[b] Appearing an even number = ...

[c] Appearing a number less than one = ...

24 Luxor Governorate

Luxor Educational Zone
El-Salaam private Languaye School

محافظة الأقصر

Answer the following questions :

1 Choose the correct answer :

(1) A circle , its diameter length is 10 cm. , then its radius length = ... cm.

(3 *or* 5 *or* 6 *or* 9)

(2) 0.737 ≃ ..... (to the nearest hundredth)

(0.72 or 0.74 or 0.738 or 0.8)

(3) If $9 \in \{8 , 3 , x\}$, then x = ... (9 or 4 or 7 or 8)

(4) If $\frac{2}{5} = \frac{a}{15}$, then a = ... (6 or 9 or 7 or 1)

(5) If $X = \{1 , 2 , 3\}$, $Y = \{2 , 3 , 5 , 6\}$, then $X \cap Y$ = ...

($\{1\}$ or $\{2 , 3\}$ or $\{1 , 2\}$ or $\{1 , 2 , 3\}$)

(6) Any triangle has ..... altitudes. (4 or 2 or 3 or 5)

(7) $\{2 , 5 , 6\} - \{6 , 5 , 3\}$ = ...

($\{2\}$ or $\{2 , 5 , 6\}$ or $\{5\}$ or $\{5 , 6\}$)

(8) 3 ..... $\{2 , 3\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(9) $\frac{5}{8}$ ☐ $\frac{3}{8}$ (> or < or = or ≤)

(10) 7.134×100 = ... (0.7134 or 713.4 or 7134 or 71340)

(11) 1.2×3 = ... (4.8 or 0.36 or 0.48 or 3.6)

(12) $\frac{2}{5} \div \frac{1}{4}$ = ... ($\frac{8}{5}$ or $\frac{6}{5}$ or $\frac{2}{8}$ or $\frac{3}{8}$)

(13) $\varnothing$ ..... $\{3 , 8\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(14) $75.3 \div 100$ = ... (735 or 7.53 or 0.753 or 75300)

2 Complete :

(1) 3.6788 ≃ ..... (to the nearest thousandth)

(2) The longest chord in a circle is called .....

(3) If $\frac{4}{7} < \frac{x}{7} < \frac{6}{7}$, then x = ...

(4) $\{1 , 3 , 5\} \cup \{4 , 2\}$ = ...

(5) $31.2 \div 10$ = ...

(6) If $\{a , 7\} = \{7 , 8\}$, then a = ...

(7) The altitudes of the acute-angled triangle intersect ..... the triangle.

(8) The probability of the certain event = ...

3 Answer the following :

(1) Find the result :

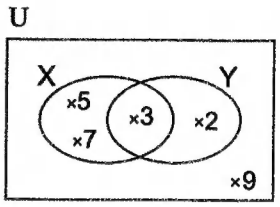
$\frac{1}{5} \times \frac{3}{4}$ = ...

(2) A bag contains 2 white balls , 4 red balls and 5 yellow balls. All the balls are equal in size. If a ball is drawn randomly :

[a] The probability that the drawn ball is white = ...

[b] The probability that the drawn ball is yellow = ...

(3) From the opposite Venn diagram , find :



[a] U = ...

[b] $X \cap Y$ = ...

(4) Draw equilateral triangle ABC whose side length = 5 cm. and draw an altitude from a vertex C perpendicular to $\overline{AB}$

25 Aswan Governorate

Aswan Educational Directorate
Eng. M.M. yacoub Formal Language School

Answer the following questions :

1 Choose the correct answer :

(1) $X \cup \dot{X}$ = ... (X or ∅ or U)

(2) 13.376 ≃ ..... (to the nearest hundredth)
(13.37 or 13.38 or 13.36)

(3) 3.75 × 1000 = ... (0.375 or 3750 or 37.5)

(4) $\frac{1}{2}$ ☐ $\frac{1}{3}$ (> or < or =)

(5) If $\frac{x}{8} = \frac{15}{24}$, then x = ... (3 or 4 or 5)

(6) $\frac{2}{3}$ × ..... = 1 (1 or 2 or $\frac{3}{2}$)

(7) $\frac{7}{10} \div \frac{9}{10}$ = ... ($\frac{7}{9}$ or $\frac{9}{10}$ or $\frac{7}{10}$)

(8) 7.2 × 0.9 = ... (6.48 or 648 or 0.648)

(9) 75.3 ÷ 100 = ... (753 or 7.53 or 0.753)

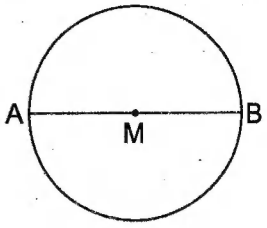
(10) ∅ ..... {1 , 2 , 3} (∈ or ∉ or ⊂ or ⊄)

(11) If {2 , 5} = {5 , a} , then a = ... (1 or 2 or 3)

(12) If $5 \in \{1 , 4 + x\}$, then x = ... (1 *or* 3 *or* 5)

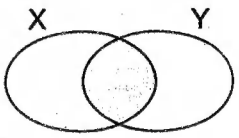
(13) **In the opposite figure :**

$\overline{AB}$ is called a .....



(radius *or* chord *or* diameter)

(14) The shaded part represents .....



($X \cup Y$ *or* $X \cap Y$ *or* $X - Y$)

2 Complete :

(1) 48.4 ÷ 0.4 = ...

(2) 3978 ÷ 234 = ...

(3) If $X \subset Y$, then $X \cap Y$ = ...

(4) If $X = \{2 , 3\}$, $Y = \{3 , 5\}$, then $X \cup Y$ = ...

(5) The longest chord in a circle is called .....

(6) The right-angled triangle has ..... altitudes.

(7) 38.76 + 25.38 = ...

(8) When tossing a coin once , then the probability of appearing a tail = ...

3 Answer the following :

(1) An owner of packing food factories wanted to pack 2952 kilograms of sugar equally in 123 packs. What is the weight of each pack ?

.....

(2) If $X = \{1 , 2 , 3 , 4\}$, $Y = \{2 , 4 , 6 , 8\}$ Find : $X - Y$

.....

(3) A box contains identical balls where 5 white balls , 9 red balls and 6 black balls. What is the probability that the chosen ball is white ?

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(4) Draw the isosceles triangle ABC in which BC = 4 cm. and AB = AC = 6 cm. , then draw $\overline{AD} \perp \overline{BC}$